

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A seed of celery cultivar designated ADS-2, wherein a representative sample of seed of said cultivar was deposited under ATCC Accession No. PTA-_____ No. PTA-7734.
2. (ORIGINAL) A celery plant, or a part thereof, produced by growing the seed of claim 1.
3. (PREVIOUSLY PRESENTED) A tissue culture of cells produced from the plant of claim 2.
4. (PREVIOUSLY PRESENTED) A protoplast produced from the tissue culture of claim 3.
5. (PREVIOUSLY PRESENTED) The tissue culture of claim 3, wherein the cells are produced from a plant part selected from the group consisting of meristematic cells, leaf, pollen, embryo, root, root tip, anther, pistil, flower, seed and stem.
6. (CURRENTLY AMENDED) A celery plant regenerated from the tissue culture of claim 3, wherein the regenerated plant has all the morphological and physiological characteristics of celery cultivar ADS-2, wherein a representative sample of seed of said cultivar was deposited under ATCC Accession No. PTA-_____ No. PTA-7734.
7. (ORIGINAL) A method for producing an F1 hybrid celery seed, comprising crossing the plant of claim 2 with a different celery plant and harvesting the resultant F1 hybrid celery seed.
8. – 9. (CANCELED)
10. (PREVIOUSLY PRESENTED) A method for producing a male sterile celery plant comprising transforming the celery plant of claim 2 with a nucleic acid molecule.
11. (ORIGINAL) A male sterile celery plant produced by the method of claim 10.

12. (ORIGINAL) A method of producing an herbicide resistant celery plant comprising transforming the celery plant of claim 2 with a transgene that confers herbicide resistance.

13. (ORIGINAL) An herbicide resistant celery plant produced by the method of claim 12.

14. (PREVIOUSLY PRESENTED) The celery plant of claim 13, wherein the transgene confers resistance to an herbicide selected from the group consisting of imidazolinone, sulfonyleurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

15. (ORIGINAL) A method of producing an insect resistant celery plant comprising transforming the celery plant of claim 2 with a transgene that confers insect resistance.

16. (ORIGINAL) An insect resistant celery plant produced by the method of claim 15.

17. (ORIGINAL) The celery plant of claim 16, wherein the transgene encodes a *Bacillus thuringiensis* endotoxin.

18. (ORIGINAL) A method of producing a disease resistant celery plant comprising transforming the celery plant of claim 2 with a transgene that confers disease resistance.

19. (ORIGINAL) A disease resistant celery plant produced by the method of claim 18.

20. – 21. (CANCELED)

22. (PREVIOUSLY PRESENTED) A celery plant, or part thereof, having all the physiological and morphological characteristics of celery cultivar ADS-2.

23. (CURRENTLY AMENDED) A method of introducing a desired trait into celery cultivar ADS-2 comprising:

- (a) crossing ADS-2 plants grown from ADS-2 seed, wherein a representative sample of seed was deposited under ATCC Accession No. PTA-_____ No. PTA-7734, with plants of another celery cultivar that comprise a desired

trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance and disease resistance;

(b) selecting one or more progeny plants that have the desired trait to produce selected progeny plants;

(c) crossing the selected progeny plants with the ADS-2 plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of celery cultivar ADS-2 listed in Table 1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of celery cultivar ADS-2 listed in Table 1.

24. (PREVIOUSLY PRESENTED) A celery plant produced by the method of claim 23, wherein the plant has the desired trait and all of the physiological and morphological characteristics of celery cultivar ADS-2 listed in Table 1.

25. (PREVIOUSLY PRESENTED) The celery plant of claim 24, wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

26. (PREVIOUSLY PRESENTED) The celery plant of claim 24, wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

27. (PREVIOUSLY PRESENTED) The celery plant of claim 24, wherein the desired trait is male sterility and the trait is conferred by a nucleic acid molecule.

28. (PREVIOUSLY PRESENTED) A protoplast produced from the celery plant of claim 2.

29. (PREVIOUSLY PRESENTED) A method of producing a celery plant with a value-added trait comprising transforming the celery plant of claim 2 with a transgene encoding a protein selected from the group consisting of ferritin, nitrate reductase and monellin.

30. (PREVIOUSLY PRESENTED) A celery plant having modified iron content, nitrate content or sweetness produced by the method of claim 29.